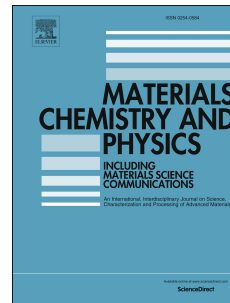


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Half metallic ferromagnetism in gallium and zinc doped chromium phosphide: First principles calculations

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- First principles calculations of CrP is performed.
- The DOS and Band structure exhibit metallic character.
- Doping Ga and Zn subject CrP to exhibit HMF.
- Ferromagnetic zb structure is predicted to be stable.
- Magnetic moment of $\text{Cr}_{0.875}\text{PGa}_{0.125}$ is greater than $\text{Cr}_{0.875}\text{PZn}_{0.125}$.

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